

### **Abstract**

A method and system for automatically determining the differences in a mobile device user interface throughout a development cycle. A test automation is run to exercise a target device's user interface. While the user interface is exercised, an  
5 extension is activated that takes snapshots of the user interface output at selected intervals of an automation execution. The snapshots are stored and uploaded to a server where snapshots of different automation executions are then compared on a pixel-by-pixel basis. The differences between snapshots are output in a visual format where the pixels that are different between snapshots are highlighted. The visual format of the differences  
10 between snapshots provides the user with a method to readily determine if errors exist in the user interface of the target device.